

7510-395-191 **Material Safety Data Sheet**

Product and Company Identification 1.0

Identification of the Preparation HP LaserJet Print Cartridge

C4191A

Company Identification Hewlett-Packard Company

11311 Chinden Boulevard

Boise, Idaho 83714

United States

Emergency Telephone Number Hewlett-

Packard Health Effects Line

I-800-457-4209 (USA and Canada)

503-494-7199 (USA direct) Singapore: +00 1-800-332-I 332 1

General Information Telephone Number

208-323-2551 (USA direct)

Local Contact Information

Ireland

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United Kingdom

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Bracknell, Berkshire, RG12 1 HN

Phone: 1344 36-0000

Hazard Rating	US NFPA/HMIS		
Health	1		
Flammability	1		
Instability/Reactivity	0		
Special	N/A		

Composition/Information on Ingredients 2.0

This product is a toner preparation that is used in Hewlett-Packard LaserJet 4500 and 4550 printers.

Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Styrene Acrylate Copolymer			40 - 50	-
Iron Oxide	1317-61-9	215-277-5	40 - 50	

Hazard Identification 3.0

The preparation is not classified according to EU Directive 1999/45/ECI

Inhalation, ingestion, skin and eyes. 3.1 Routes of Exposure



751 o-395-1 91

Material Safety Data Sheet

3.2 Acute Health Hazards

Inhalation: Minimal respiratory tract irritation may occur with exposure

to large amount of toner dust.

ingestion: Ingestion is not applicable route of entry for intended use.

Skin: Unlikely to cause skin irritation

Eyes: May cause eye irritation.

3.3 Chronic Health

Hazards

Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this product as intended

does not result in inhalation of excessive amounts of dust.

3.4 Carcinogenicity

Refer to section 11.

4.0 First Aid Measures

Inhalation: Move person to fresh air immediately. If symotoms

occur, consult a physician.

Ingestion: Dilute stomach contents with several glasses of

water. Get medical attention if symptoms persist.

Skin: Wash affected areas thoroughly with soap and

water. If irritation persists, consult a physician.

Eyes: Immediately flush with large amounts of clean,

lukewarm water (low pressure) for at least 15 minutes. If irritation persists, consult a physician.

I 5.6 Fire Fiahtina Measures

Extinguishing media CO₂, water, dry chemical

Unsuitable Extinguishing

Media

None known

Special Firefighting

Procedures

None

Unusual fire and explosion

. hazards Toner material, like most organic material in powder

form, is capable of creating a dust explosion.

Auto-ignition temperature

ure No data available

Flashpoint (method)

Not applicable

Hazardous Combustion

Combustion will produce carbon dioxide and,

Products

possibly toxic chemicals such as carbon monoxide

6.0 Accidental release measures

August 1, 2002

6.1 Spill or leak procedures Wear personal protective equipment as described in

Section 8. Avoid breathing dust. Minimize the release of particles, Vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust tight. Dispose

of waste toner in accordance with local

requirements.

Page 2 of 6 HP LaserJet C4191A



Material Safety Data Sheet

6.2 Environmental precautions

Do not discharge into drains (See also section 13 Disposal Considerations).

7.0 Handling and Storage

Advice on safe handling and protection against fire

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from executive heat sparks and open flames.

Requirements for storage rooms and advice on storage compatibility

from excessive heat, sparks, and open flames. Keep out of the reach of children. Keep container closed and store at room temperature. Keep away

from strong oxidizers.

8.0 Exposure control/ personal protection

8.1 Exposure Limit Values

USA OSHA (TWA/PEL): 15 mg/m³ (Total Dust)

5 mg/m³ (Respirable Fraction)

ACGIH (TWA/TLV): 10 mg/m³ (Inhalable Particulate)

3 mg/m³ (Respirable Particulate) 10 mg/m³ (Einatembare Partikel)

TRGS 900 (Luftgrenzwert): 10 mg/m3 (Einatembare Partikel) 3 mg/m3 (Alveolengangige Fraktion)

8.2 Exposure Controls

August 1, 2002

Respiratory protection Not required under intended use

Ventilation Good general ventilation should be sufficient under

intended use

Protective gloves Not required under intended use

Eye protection Not required under intended use

Other protective equipment Not required under intended use

9).0 Physical and chemical properties

pH Not applicable

Boiling point Not applicable Flash point Not applicable

Melting point 100 - 1 50°C (Softening Point)

Flammability Non-flammable solid (according to test methods of

USA 16 CFR 1500.44 and 84/449/EEC (Annex V)

A.IO)

Explosive properties Toner material, like most organic material in powder

form, is capable of creating a dust explosion

Clxidizing properties No data available

Vapor Pressure Not applicable Specific gravity (H₂Q=1), 1.4 - 1.8

Solubility in water Negligible

Solubility in organic Partially soluble in toluene and xylene

solvents

Partition coefficient Not applicable

Viscosity Not applicable

Material Safety Data Sheet

Vapor density Not applicable Evaporation rate Not applicable Physical state Fine powder

Color Black

Odor Slight plastic odor Other None Known

10.0 Stability and reactivity

Stability Stable under normal storage conditions

Incompatibilities Strong oxidizers

Hazardous decomposition Combustion will produce carbon dioxide and,

products possibly toxic chemicals such as carbon monoxide

Hazardous polymerization Will not occur

11 .O Toxicological information

Refer to Section 3 for potential heath effects and Section 4 for first aid measures

Acute Toxicity:

Inhalation: LC₅₀:inh-rat>5mg/L/4 hrs. (data from similar toner),

not harmful.

Ingestion: LD₅₀:orl-rat>2000 mg/kg (data from ingredients of

toner).

Eye Contact: Not classified as irritant, according to OSHA Hazard

Communication Standard (HCS) and EU Directive

67/548/EECI (data from ingredients of toner).

Skin Contact: Not classified as irritant, according to OSHA Hazard

Communication Standard (HCS) and EU Directive

67/548/EECI (data from ingredients of toner).

Chronic Toxicity: No data available

Sensitization: Not classified as a sensitizer according of EU

Directive 67/548/EEC and OSHA HCS (US).

Mutagenicity: Negative, does not indicate mutagenic potential

(Ames Test: Salmonella typhimurium)

Carcinogenicity: Not a known or suspected carcinogen according to

any IARCI Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California)

Reproductive Toxicity: Not classified as toxic according to EU Directive

67/548/EEC, California Prop. 65, or DFG

(Germany).

Other: Sub-Acute Toxicity (Rat)- 90 day inhalation test, No

Observable Effect Level (NOEL): 16 mg/m 3. Expected air concentration levels under printing

conditions are <0.01mg/m3.



Material Safety Data Sheet

12.0 Ecological Information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

13.0 Disposal considerations

Product // unused product // contaminated packaging (for Germany only)
Recommendation: consult with the disposal agency and the relevant authorities;
cleansing agent is water.

14.0 Transportation information

Not a regulated article under DOT, IATA, ADR, or RID

UN Number None

Class None

Proper Shipping Name None

Packing Group None

Special Precautions Not identified

15.0 15.0 Regulatory information

US EPA TSCA Inventory All ingredients are listed on TSCA inventory

US EPA TSCA 12(b) None

US California Proposition 65 None

EU Notification All components in this product are compliant with

EU Chemical Inventory regulations.

EU R&S Phrase Information No European Risk Phrases (labeling data)

Dangerous Components None

(CAS No.) wt%

USA Labeling

Symbol Not required

Hazard Warning Not required

Safety Advice Not required

Hazardous Component(s) None

16.0 Other information

Date Prepared: August 1, 2002

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Number:

Revision Information: This document replaces all prior versions of the MSDS

EU Information This MSDS was prepared in compliance with EU Directive

91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communications regulations (29CFR1910:1200).

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at

August 1, 2002 Page 5 of 6 HP LaserJet C4191A



Material Safety Data Sheet

the time of preparation of this MSDS and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.

August 1, 2002 Page 6 of 6 HP LaserJet C4191A